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(54) Title: METHODS FOR SYNTHESIZING 2-CHLORO-9-(2-DEOXY-2-FLUORO- β -D-ARABINOFURANOSYL)-9H-PURIN-6-AMINE

(57) Abstract: 2-Chloro-9-(2-deoxy-2-fluoro-β-D-arabinofuranosyl)-9H-purin-9-amine is synthesized by reacting a 2-chloro-6-substituted purine with a protected and activated 2-deoxy-2-fluoro-D-arabinofuranose; and reacting with a base such as ammonia to provide 2-chloro-9-(2-deoxy-2-fluoro-β-D-arabinofuranosyl)-9H-purin-6-amine. When the purine reactant is substituted in the 6 position with a halogen, a reaction step with an alkoxide is carried out prior to the reaction with ammonia.